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ABSTRACT OF THE DISCLOSURE

A high temperature gas flow sensing element module, using Pitot tube technology, for use within a fluid conduit consisting of a housing having an inlet, an outlet, and forming a hollow interior cross-sectional area. Individually, the gas flow sensing element modules fit easily through typical furnace access doors. Thus, in typical furnace retrofit applications, a plurality of equally sized gas flow sensing element modules are arranged adjacent one another in a manner such that the inside dimensions of the entire arrangement coincide with the internal dimensions of the plenum or duct opening into which it is inserted. Pressure averaging piping is used to provide average total and static pressure across the entire gas flow sensing element to differential pressure flow indicators and/or transmitting devices.